



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1182810
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1182810

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	Lawrence 1
Doc ID	1182810

Tops

Name	Top	Datum
Anhydrite	1338	+789
Base	1379	+754
Topeka	3111	-978
Heebner Shale	3349	-1216
Toronto	3369	-1236
Lansing	3394	-1261
Base KC	3628	-1495
Arbuckle	3656	-1523
TD	3748	-1615

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7458

Date <u>10-19-13</u>	Sec. <u>28</u>	Twp. <u>12</u>	Range <u>17</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>7:00 pm</u>
Location <u>Weld Tech Shop 3 1/2 Winto</u>							

Lease <u>Lawrence</u>	Well No. <u>1</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Shields</u>		
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>231</u>	Charge To <u>Staub Oil</u>
Csg. <u>8 5/8</u>	Depth <u>231</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>15</u>	Shoe Joint	Cement Amount Ordered <u>150 cum 31 CC 21 CC</u>

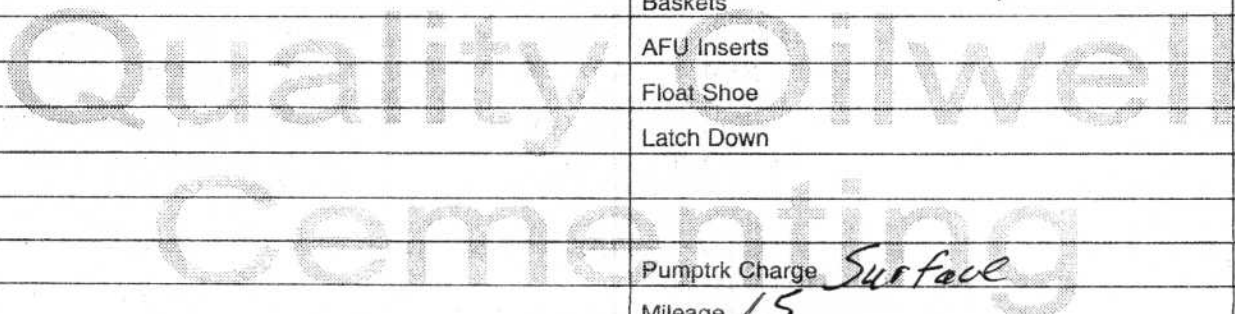
Meas Line	Displace <u>13 1/2 B C</u>	
EQUIPMENT		
Pumptrk <u>16</u>	No. Cementer <u>Chris</u>	Common <u>150</u>
	Helper	Poz. Mix <u>2</u>
Bulktrk <u>1</u>	No. Driver <u>Travis</u>	Gel. <u>3</u>
	Driver	Calcium <u>5</u>
Bulktrk <u>14</u>	No. Driver <u>Chad</u>	
	Driver <u>Doug</u>	

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
<u>8 5/8 on bottom. Est. Circulation.</u>		Handling <u>150</u>
<u>Mix 150 g/c + Displace</u>		Mileage

FLOAT EQUIPMENT	
<u>Cement Circulated</u>	Guide Shoe
	Centralizer <u>8 5/8 surge</u>
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge <u>Surface</u>	Tax
Mileage <u>15</u>	Discount
	Total Charge

X Signature George Bagby





CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 44491
LOCATION Oakley Ks
FOREMAN Jerry Yates
Walt Diinkel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-26-13		Lawrence #1	28	125	17 ^W	Ellis
CUSTOMER			Catharina			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			463	Cory Davis		
STATE			466	Jeremy Sturgin		
ZIP CODE						

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 3748' CASING SIZE & WEIGHT 5 1/2"
 CASING DEPTH 3735' DRILL PIPE _____ TUBING _____ OTHER PC, 1371'
 SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 18.62'
 DISPLACEMENT 889' DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPM

REMARKS: Safety Meeting, rig up on Shields Dols, run Float Equipment
Cart on #1, 3, 4, 5, 7, 9, 11, 13, 67, Baskets on #1, 68#, Part Collar on 68#
circ, casing on battery, Pumped 500 gal mud flush, mixed 150 sks
com, 10% salt 2% cel, clear Pump + lines, release Plug + Displace 889'
Hz D 2 800# / mud Plug 2 1300# Release Pressure, Float Held
15 sks in MH
30 sks in RH

(Rotating Head) Thank You
Walt - Jerry + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2,850 ⁰⁰	2,850 ⁰⁰
5406	25	MILEAGE	5 ²⁵	131 ²⁵
5407	9.17	Ton Milocco Delmar	1 ⁷⁵	430 ⁰⁰
11045	195 SKS	Class A Cement	18 ⁵⁵	3,617 ²⁵
1111	937 #	Salt	1.50	466 ⁰⁰
1118B	366 #	cel	1.27	98 ⁸²
11446	500 gal	mud flush	1 ⁰⁰	500 ⁰⁰
4159	1	5 1/2 AFU Float Shoe	433 ⁷⁵	433 ⁷⁵
4454	1	5 1/2 Lateral down Plug Assy	318 ²⁵	318 ²⁵
4136	9	5 1/2 Constrictors	61 ⁰⁰	549 ⁰⁰
4104	2	5 1/2 Baskets	2,178 ⁷⁵	2,178 ⁷⁵
4285	1	5 1/2 Part Collar	290 ⁰⁰	580 ⁰⁰
1111	100 #	Salt	N/C	N/C
				12,153 ⁰⁰
		Less 10% Disc		- 1,215 ³¹
				10,937 ¹⁶
			SALES TAX	
			ESTIMATED TOTAL	

AVIN 3737 AUTHORIZATION Stark Oil Co Field Staff TITLE _____ DATE 10-30-13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7471

Date	11-10-13	Sec.	Twp.	Range	County	State	On Location	Finish
					Elis	KS		11:00 p.m.
					Location Wild Tech 3/4" W into			

Lease	Landmark	Well No.	Owner
Contractor	Business		To Quality Oilwell Cementing, Inc.
Type Job	Port Cellar		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size	2 7/8	I.D.	Charge To
Csg.	5/2	Depth	1 Stack Oil
Tbg. Size	2 7/8	Depth	Street
Tool	Dans Packer Dam	Depth	City
Cement Left in Csg.		Shoe Joint	State

The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Amount Ordered	250 60/40 4-1/2" 4-1/2" 4-1/2"

Meas Line	Displace	LABL	USED 2300K
EQUIPMENT		Common	138
Pumptrk	17	No. Cementer Helper	92
Bulktrk		No. Driver	8
Bulktrk	9	No. Driver	Clayton
JOB SERVICES & REMARKS		Hulls	

Remarks:	Salt
Rat Hole	Flowseal 62#
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
Phg 2615 Test to 800ft.	Handling 250
Turn hole over & Circ Oil Out of	Mileage
Hold. Open Tool & Pst. Clayton	
Mix 2300K + Cement Circulate?	
Close Tool test to 800ft.	
Run 5 joints wash clean.	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	port collar
Mileage	15
Tax	
Discount	
Total Charge	
X Signature	Stack Oil Co. Todd Stack



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Co
1607 Hopwell Rd
Hays KS 67601 + 9443

ATTN: Randy Kilian

28-12s-17w Ellis,,KS

Lawrence #1

Job Ticket: 52543

Test Start: 2013.10.23 @ 23:40:24

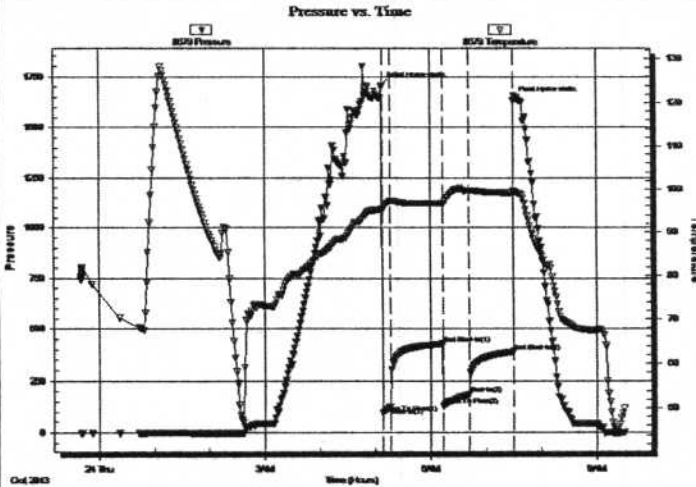
DST#: 1

GENERAL INFORMATION:

Formation: **LKC-C-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:07:54
 Time Test Ended: 09:36:24
 Interval: **3387.00 ft (KB) To 3491.00 ft (KB) (TVD)**
 Total Depth: **3491.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jeff Brown**
 Unit No: **67**
 Reference Elevations: **2133.00 ft (KB)**
2128.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8679 **Inside**
 Press@RunDepth: **186.85 psig @ 3456.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2013.10.23** End Date: **2013.10.24** Last Calib.: **2013.10.24**
 Start Time: **23:40:25** End Time: **09:30:24** Time On Btm: **2013.10.24 @ 05:07:24**
 Time Off Btm: **2013.10.24 @ 07:29:54**

TEST COMMENT: IFP=Weak blow built to 1"
 ISI=Dead no blow back
 FFP=Weak blow built to 1/4" died out in 12 min. Flushed tool weak surface blow then died out
 FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.48	95.42	Initial Hydro-static
1	93.17	95.03	Open To Flow (1)
9	123.86	97.29	Shut-In(1)
66	428.03	96.79	End Shut-In(1)
67	129.59	96.69	Open To Flow (2)
94	186.85	99.80	Shut-In(2)
142	390.74	99.24	End Shut-In(2)
143	1636.55	99.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM With a scum of oil 20%W 80%M	0.44
217.00	VSOCM 2%O 98%M	1.54

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Co
1607 Hopwell Rd
Hays KS 67601 + 9443

ATTN: Randy Kilian

28-12s-17w Ellis, KS

Lawrence #1
Job Ticket: 52544

DST#: 2

Test Start: 2013.10.25 @ 14:09:46

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:07:46
Time Test Ended: 22:05:16

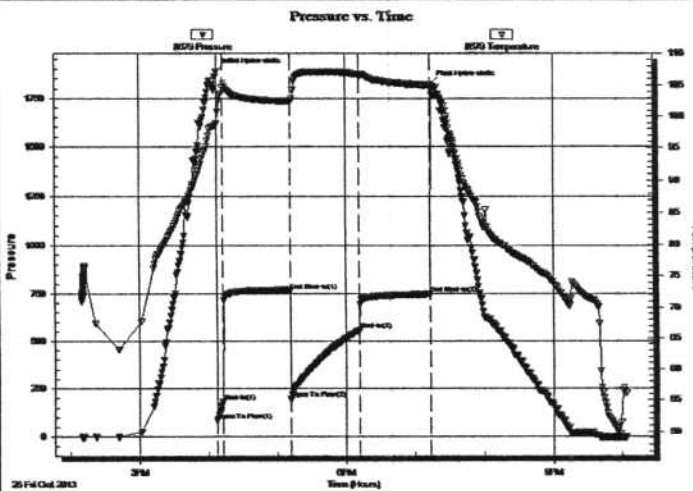
Interval: **3625.00 ft (KB) To 3685.00 ft (KB) (TVD)**
Total Depth: 3750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)
Tester: Jeff Brown
Unit No: 67

Reference Elevations: 2133.00 ft (KB)
2128.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **8679** Outside
Press@RunDepth: 560.36 psig @ 3663.00 ft (KB)
Start Date: 2013.10.25 End Date: 2013.10.25 Capacity: 8000.00 psig
Start Time: 14:09:47 End Time: 22:03:16 Last Calib.: 2013.10.25
Time On Btm: 2013.10.25 @ 16:07:16
Time Off Btm: 2013.10.25 @ 19:14:16

TEST COMMENT: IFP=Strong blow BOB in 2-3/4 min
IS=Dead no blow back
FFP=Fair blow built to 4-3/4 min Dead back to 1/4 in
FS=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.86	98.93	Initial Hydro-static
1	82.62	99.02	Open To Flow (1)
5	181.06	104.70	Shut-In(1)
65	765.74	102.48	End Shut-In(1)
65	197.73	102.43	Open To Flow (2)
125	560.36	106.68	Shut-In(2)
186	748.42	105.00	End Shut-In(2)
187	1821.95	104.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	VSOCMW 2%O 10%M 88%W	1.34
441.00	OCMW 10%O 20%M 70%W	4.26
536.00	GWOCM 10%G 5%W 15%O 70%M	7.52
31.00	HOCM 40%O 60%M	0.43

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Staab Oil Co
1607 Hopwell Rd
Hays KS 67601 + 9443
ATTN: Randy Kilian

28-12s-17w Ellis,,KS

Lawrence #1

Job Ticket: 52545

Test Start: 2013.10.25 @ 23:20:50

DST#: 3

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:20

Time Test Ended: 07:36:20

Test Type: Conventional Straddle (Reset)

Tester: Jeff Brown

Unit No: 67

Interval: 3624.00 ft (KB) To 3666.00 ft (KB) (TVD)

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2133.00 ft (KB)

2128.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8679

Outside

Press@RunDepth: 150.98 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.25

End Date:

2013.10.26

Last Calib.: 2013.10.26

Start Time: 23:20:51

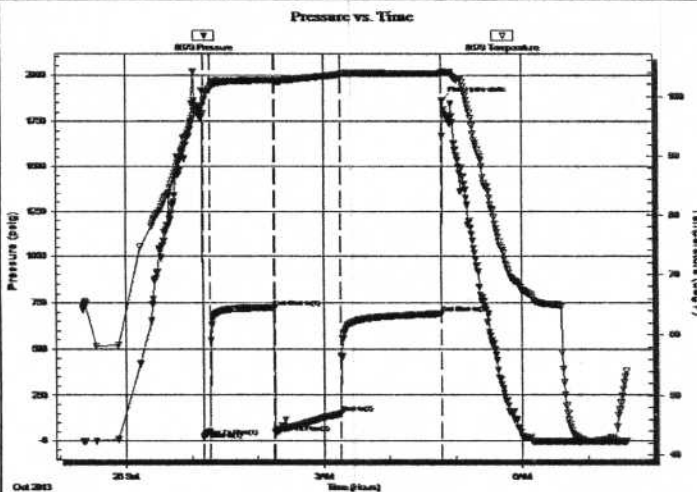
End Time:

07:34:20

Time On Btm: 2013.10.26 @ 01:09:50

Time Off Btm: 2013.10.26 @ 04:47:50

TEST COMMENT: IFP=Fair blow built to 4 in
ISI=Weak surface blow back Died out in 12 min
FFP=Good blow BOB in 36 min
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.42	98.32	Initial Hydro-static
1	23.15	97.27	Open To Flow (1)
7	54.76	101.26	Shut-In(1)
66	723.82	102.72	End Shut-In(1)
66	45.19	102.46	Open To Flow (2)
126	150.98	103.66	Shut-In(2)
217	692.18	103.83	End Shut-In(2)
218	1860.46	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GWHOCM 10%G 10%W 35%O 45%M	0.88
188.00	GHOcm 5%G 35%O 60%M	1.33
0.00	441=GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Heartland Tank Service

Invoice

P.O. Box 506
Hays, KS 67601

Date	Invoice #
11/2/2013	6216

Phone #	785-625-3802
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Bill To
Staab Oil Company 1607 Hopewell Rd Hays, KS 67601

Terms
Net 15

Project/Lease
Lawrence Lease

Serviced	Item	Description	Quantity	Rate	Amount
10/29/2013	Vacuum Truck	-Pulled 160/bbl free water from reserve pit -Took to disposal	4	90.00	360.00
	Disposal Fee	Disposal fee CLA-MAR #6509 Dechant SWD - Docket #24904 SW 17-14-18	160	0.15	24.00
10/31/2013	Vacuum Truck	-Delivered 80/bbl salt water to swab tank	2	90.00	180.00
<i>PQ 10478 11-12-13</i>					
Thank you for your business.					Total \$564.00

Randall Kilian Corporation

Geologist



**Certified Petroleum
Geologist #3351
License #224**

P.O. Box 26
Hays, Kansas 67601-0026
Phone: 785-628-6061
Cell: 785-635-1349

GEOLOGIST'S WELL REPORT

COMPANY STAAB OIL CO. (6037)

WELL Lawrence #1

FIELD Schmeidler

LOCATION (legal) Ap. NE SW NE SE
(1810' FSL & 860' FEL)

Section 28 TWP 12S RGE 17W

(Map) 3 1/4 mi N of Catherine, Ks.

COUNTY Ellis STATE Kansas

ELEVATION: 2133' K.B., 2128' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26625

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Shields Oil Producers

RIG #2 HYDRAULICS Beth 225 6x14x56
(George Begler TP)

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" 8 (293')

CASING: SURFACE 8 5/8" @ 228' w/ 150 sx Common

PRODUCTION 5 1/2" @ 3747' w/ 150 sx Common
PC in Anhydrite

DRILLING FLUID: COMPANY Mud-Co/Service Mud, Inc.
(Gary Schmidtberger)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.
(Jeff Brown)

NUMBER OF TESTS Three (3)

ELECTIC LOGS: COMPANY Pioneer Energy Services

DETAIL (5") 3000' - RTD

TYPE DI, Comp N-D, Micro

DRILLING TIME FROM 3050' TO RTD

SAMPLE TIME FROM 3050' TO RTD

SUPERVISION FROM 3050' TO RTD

VERTICAL DEVIATION 0°@ 231', 1°@ 3750'

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

RESERVE PIT 750 bbls., Chl. 82,000

DRILL STEM TESTS

NO	INTERVAL	IFF/TIME	ISIP/TIME	FFF/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	LKc C-F 3387- 3491'	93# 124# 5"	428# 60"	130# 187# 30"	391# 30"	1705# 1637#	217' Sl, O, C, Mud 62' W, Mud w/ s.o.
2	Arb. 3625- 3685'	83# 198# 5"	766# 60"	181# 560# 60"	748# 60"	1887# 1822#	567' G, W, O, Mud 630' Sl, O&G, C, M, Wt.
3	Arb. 3624- 3666'	23# 45# 5"	724# 60"	55# 151# 60"	692# 90"	1915# 1860#	441' GIP 188' G, H, O, C, Mud 39 124' G, W, H, O, C, Mud
4							
5							
6							
7							
8							

MUD RECORD						
CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	2944'					
2	2945'	8.6	60+	6.0	1.9k	35
3	3190'	8.9	55			
4	3320'	9.0	53			
5	3491'	9.2	56	6.0	1.9k	25
6	3550'	9.1	46			
7	3615'	9.2	45			
8	3750'	9.4	60	7.6	2k	25
9						
10						
11						

Displaced
LCM 3#
LCM 1#
LCM 2#
LCM 1# \$6159

BIT RECORD					
NO	SIZE	MAKE	TYPE	DEPTH-OUT	HOURS
1	12 1/4"	Reed	RR	231'	7
2	7 7/8"	Reed	S52	3750'	94 1/2
3					
4					
5					
6					

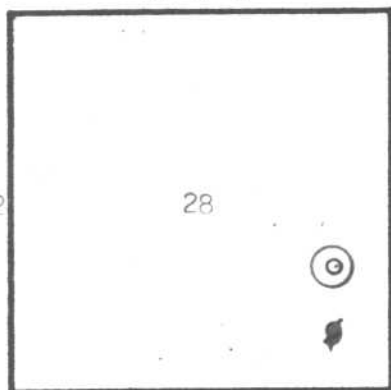
FORMATION TOPS & STRUCTURAL GEOLOGY

R 17 W

REFERRED TO:

- A: RP NIXON OPERATIONS
#4 Schmeidler West NW SE SE 28
- B: _____
- C: _____
- D: _____
- E: _____

T
12
S



STRATIGRAPHIC MARKERS	SUBJECT WELL			STRUCTURAL POSITION				
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1344'	1338'	+ 789	+ 794				
Base	1379'	1379'	+ 754	+ 756				
Topeka	3114'	3111'	- 978	- 973				
Heeb. Sh.	3351'	3349'	-1216	-1221				
Toronto	3371'	3369'	-1236	-1242				
Lansing	3396'	3394'	-1261	-1267				
PKc.	3626'	3628'	-1495	-1501				
Arbuckle	3659'	3656'	-1523	-1550				
TD	3750'	3748'	-1615	-1604				

Pipe strap 1.28' short.

*Structural position of subject well as compared to referred well.

SUMMARY

The Lawrence #1 well was drilled with Shields Oil Producers tools rig #2 beginning 10-18-13 and drilling was completed 10-16-13.

The drill site was located via a 3-D seismic survey.

The well ran high structurally to the referenced well. Poor oil shows were encountered in the LKc Group. DST #1 was an inconclusive test. The tool slid 10' to bottom and recovered more fluid than expected.

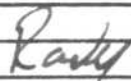
The LKc F & C may produce some oil after completion.

The Arbuckle was encountered 27' high with good oil shows. DST #2 was over the upper 29'. Oil and gas cut muddy water was recovered. DST #3 over the upper 10' was a positive test.

Based upon all data, casing was set and cemented to further test and produce the well.

Recommended perfs: Arb. 3658-59', LKc F 3474-75',
C 3422-23, Toronto 3372-74'.

Respectfully,



Randall Kilian

DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

POOR
FAIR
GOOD
& DST

LITHOLOGY (LAGGED)

REMARKS

WV 1112

ANVH. 40

1350

60

70

Base

80

50

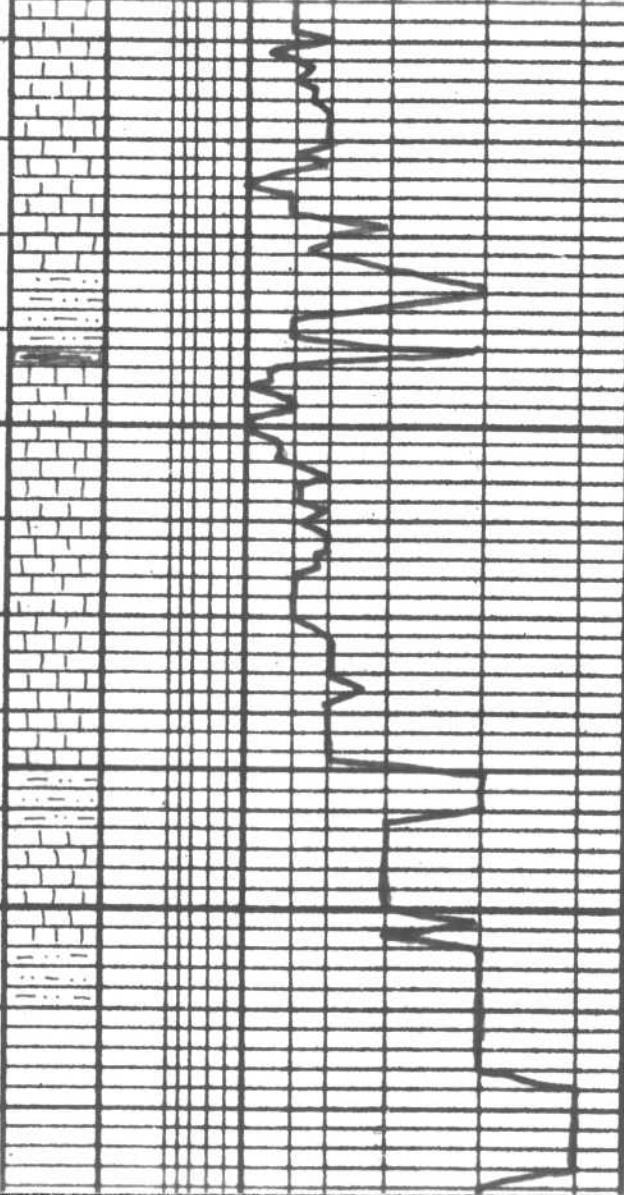
60

70

Displaced @ 2944'
Mud
Vis. - 60+ Y.P. - 35
WT. - 8.6 CHL. - 1.9K
WL. - 6.0 RM - 3#

80
90
10
20
30
40
50
60
70
80
90

Top of page



sh & sltst-gry-brn-grn.

ls - Tan-brn-gry-fn. fossil. shchally

sh & sltst-gry-brn.

ls - Tan-brn-gry-fn. fossil.

ls & slt

sh-dark gry

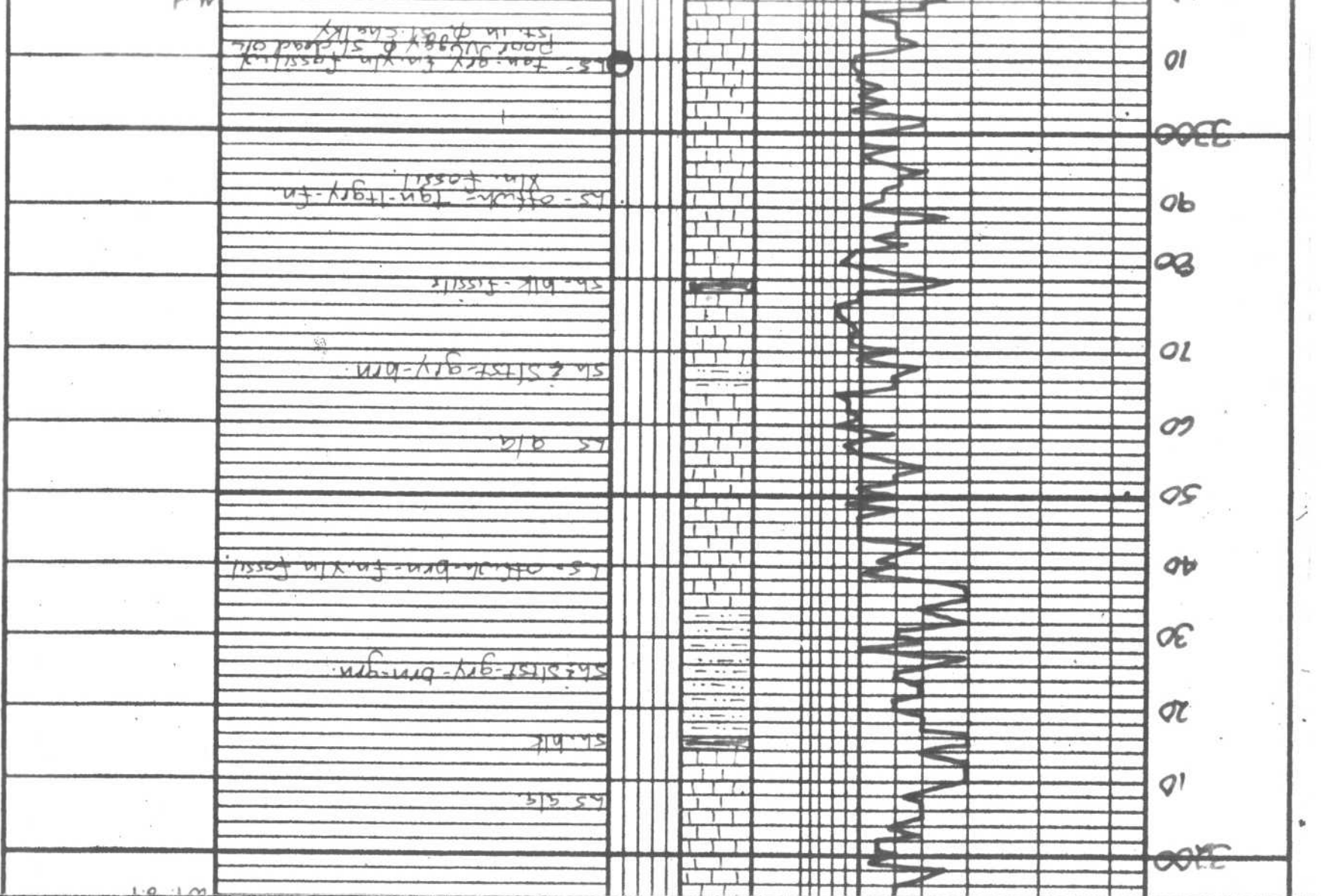
sh & sltst-gry-brn.

ls - Tan-gry-fn. fossil. shchally

ls & slt

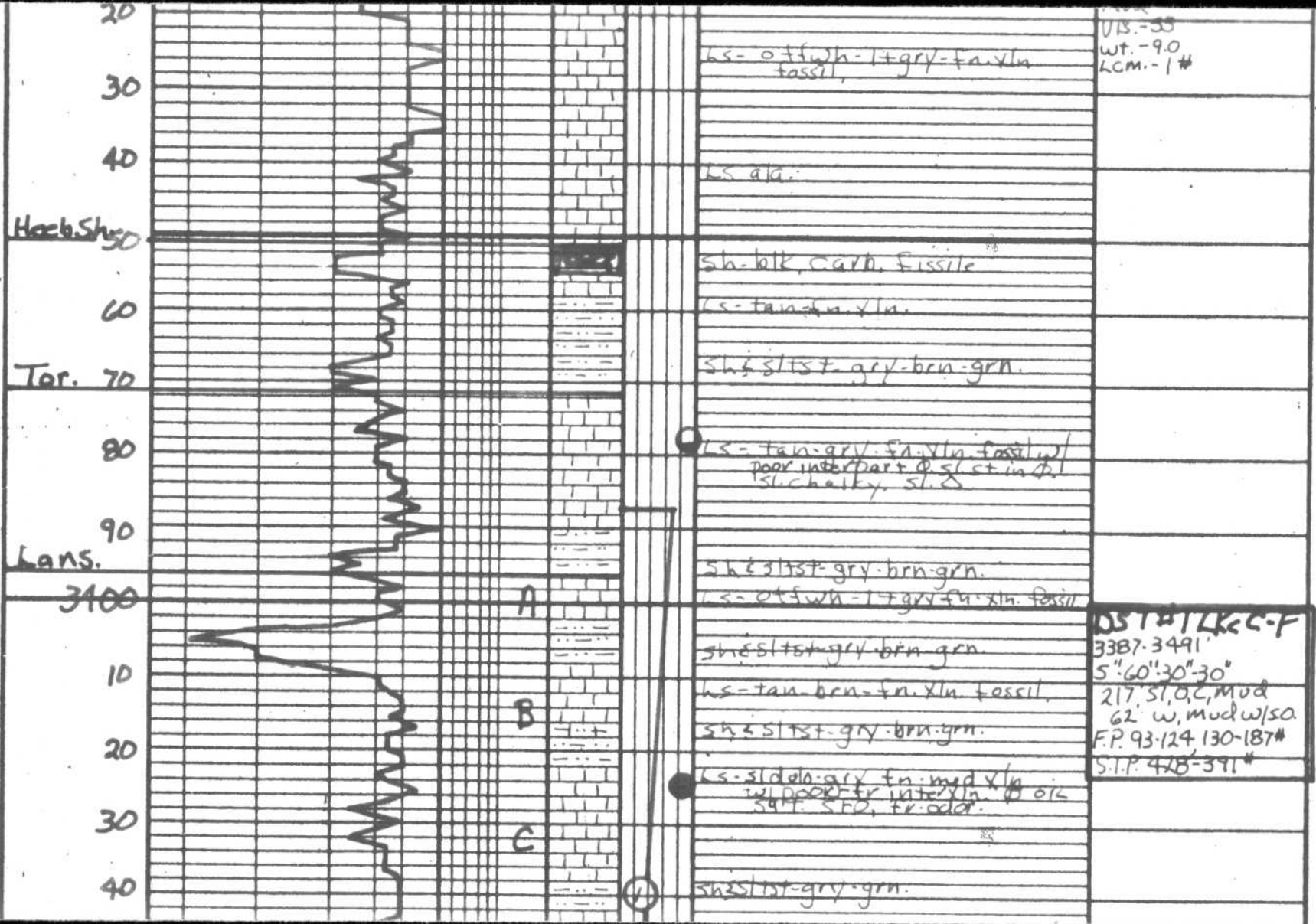
Mud
Vis: 55

geo cm location
7:00pm 10-22-13

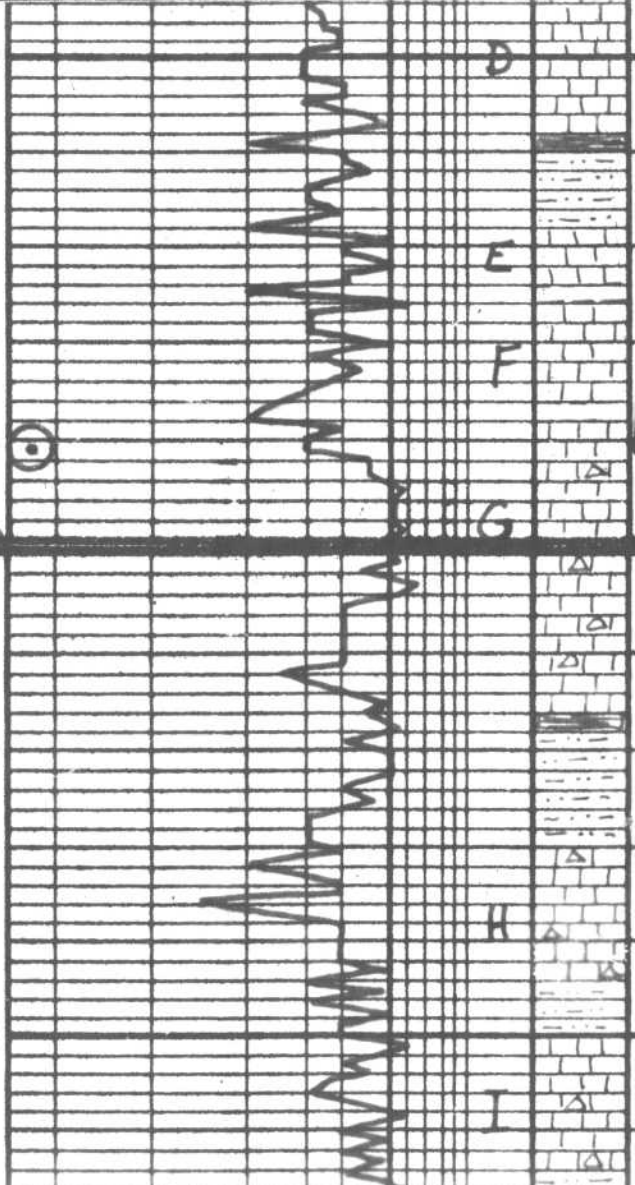


10 01

Mid



50
60
70
80
90
10
20
30
40
50
60

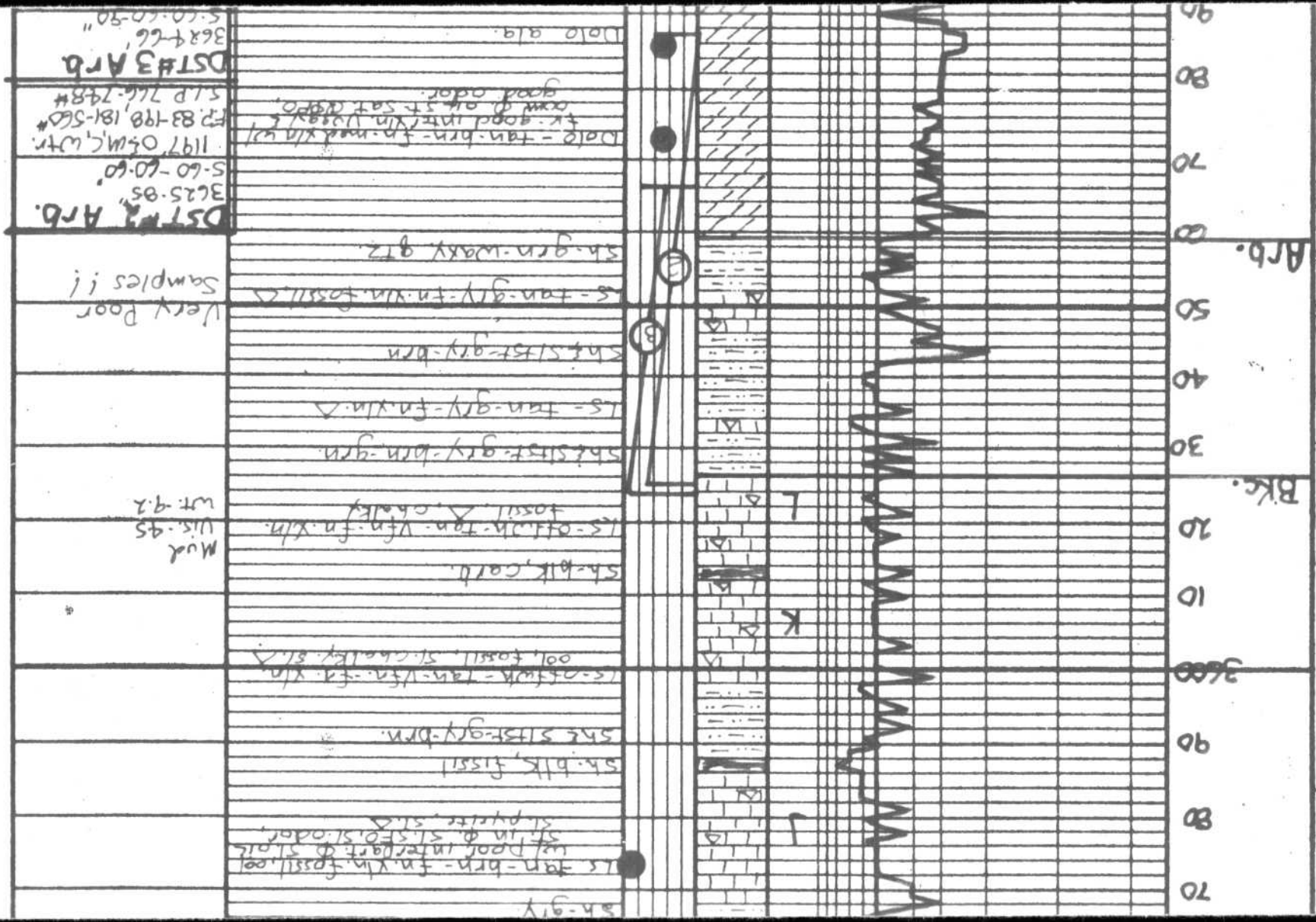


D
E
F
G
H
I

ls-dolb-tan-gry-fn.xln fossil
w/ ~~poor~~ tr. interpart. ϕ oil
sh-dark gry.
sh-siltst-gry-brn.
ls-tan-gry-fn.xln. fossil.
sh-gry.
ls-tan-gry-fn.xln. ool-fossil.
w/ ~~poor~~ tr. interpart. ϕ
oil-st. sat. sfo
ls-offwh-tan-fn.xln. ool.
st. ch. sh.
sh-dark gry
sh-siltst-gry-brn.
ls-offwh-ltary-vfn-fn
xln fossil st. ch.
sh-siltst-gry-brn-grn.
ls-offwh-ltary-vfn-fn.
xln. ool-fossil w/ Δ ,
st. chalky.

Strap 1.28'short.
Mud
Vis-56 Y.P.-25
wt-9.2 chl. 1.9%
wk-6.0 LCM-2#

Mud
Vis.-46
wt-9.1



DST#3 Arb.
 3684-66
 5-60-60-90
 197 OSMC WTR
 181-560
 766-748#
 5-60-60-90

DST#2 Arb.
 3625-85
 5-60-60-90
 Very Poor
 Samples !!
 sh. grn-waxy grt.

sh. silt-gr. brn.
 ls-tan-gr. xln.

sh. silt-gr. brn-grn.
 ls-tan-gr. xln.

sh. blk. carb.
 ls-tan-gr. xln.

sh. silt-gr. brn.
 ls-tan-gr. xln.

sh. silt-gr. brn.
 ls-tan-gr. xln.

sh. gr.

Note also.
 good odor.
 tan-brn-fn. xln. w/ oil
 + good int. in part of
 zone of oil sat. zone.

sh. brn-fn. xln. fossil, oil
 st. in part of st. oil
 st. in part of st. oil
 sh. silt-gr. brn.

